County of Los Angeles Department of Health Services Emergency Medical Services Agency Disaster Medical Services

	Disaster Training Unit Course Description
Topic:	CBRN Medical Management-Clinical Personnel
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Course Hours:	4
Course Description:	This course emphasizes the signs and symptoms of exposure to Chemical, Biological, and Radiological contaminates, the evaluation of victims, triage of casualties, therapeutic regimens for treatment and prophylaxis. THIS COURSE DOES NOT COVER DECONTAMINATION TECHNIQUES.
Target Audience:	Physicians, Nurses, Paramedics and any other clinical personnel.
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Objectives:	At the conclusion of this course the student will be able to:
	 Describe reasons why a terrorist might use CBRN weapons. List ways that CBRN incidents are different from an industrial Haz-mat incident.
	 Describe the most likely method of dissemination to be used by a terrorist. Describe the different mechanisms that toxic substances can enter the body and cause harm.
	Identify unique characteristics of a CBRN event.
	Describe the impact of toxic chemicals as it relates to mortality and morbidity.
	State the sources of harmful chemicals.
	 List the major categories of chemical agents as described in this class. Describe how a first responder/receiver might best utilize the knowledge of what toxic agents smell like.
	Review normal physiological effects of the release of acetylcholine and the effects nerve agent on that process.
	Describe the signs, symptoms and treatment of selected chemicals agents that might be weaponized.
	Compare and contrast between a communicable and a non-communicable disease.
	List attributes of a pathogen that would cause it to be weaponized.
	Describe the cluster of symptoms that most biological weapon agents initially create in the earliest stages of illness.
	Describe what makes atoms "radioactive".
	Differentiate between non-ionizing and ionizing radiation.
	 Discuss various ionizing particles and waves and their potential for harm. Name a device that detects radiation.
	 Describe the most important asset in responding to or providing aid at a
	radiological event.
	Explain the relationship of different radiation measurements and conversions.
	Describe the concept of background radiation.

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- > Define the term ALARA.
- > Describe and apply the four principles of radiation protection.
- > Differentiate between exposure, contamination and incorporation.
- > Describe the immediate actions of potential radiological terrorism incidents likely to result in mass casualties.
- Explain OSHA exposure limits and how they apply to responders/receivers.
- ➤ Identify the major pharmacological agents used to treat patients with radiological injury following a mass casualty radiological terrorism incident.
- Identify the key principles involving triage of patients with potential radiation injury (Acute Radiation Syndrome).
- Describe the key components of treating patients with combined injury (trauma and radiation injury.
- Describe the acronym RAPIDCare.